The Lead

Photos of the Day: Jet engine powers world's fastest ship

March 25, 2015 | by GE Reports | Comments

When the first C-5 transport plane took off in 1968, it became the world’s largest aircraft, capable of lifting 130 tons of cargo. As tall as a six-story building and 80 yards long, the U.S. Air Force called it “a beautiful, useful giant.”

TOPICS:

- Military & Aerospace
- Photos of the Day

Photos of the Day: The Satellite 2015 expo

March 18, 2015 9:33 am | by Jason Lomberg, Digital Editor, @JasonECNMag | Comments

SATELLITE 2015 had "communications solutions for every end-user of satellite communications and...

Photos of the Day: Railguns, robots, and shark drones at the Naval Future Force Expo

February 6, 2015 11:32 am | by Jason Lomberg, Digital Editor, @JasonECNMag | Comments

ECN's Digital Editor, Jason Lomberg, paid a visit to the Naval Future Force Science &...

Gift Guide: Gadgets for avid TV viewers

December 3, 2014 9:28 am | by ANICK JESDANUN, AP Technology Writer | Comments

For avid television viewers out there, the standard digital-video recorder...

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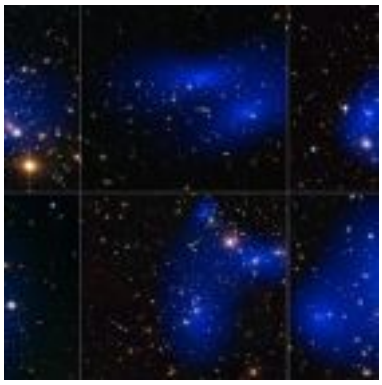
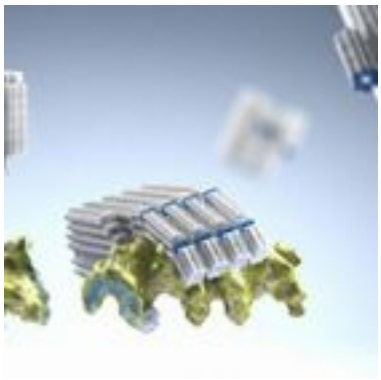


Dark matter even darker than once thought

March 26, 2015 3:59 pm | by ESA/Hubble Information Centre | Comments
Astronomers using observations from the NASA/ESA Hubble Space Telescope and NASA's Chandra X-ray Observatory have studied how dark matter in clusters of galaxies behaves when the clusters collide. The results, published in the journal Science on 27 March 2015 ...
TOPICS:

- Military & Aerospace



Designer's toolkit for dynamic DNA nanomachines

March 26, 2015 3:56 pm | by Technische Universitaet Muenchen | Comments

The latest DNA nanodevices created at the Technische Universitaet Muenchen (TUM) - including a robot with movable arms, a book that opens and closes, a switchable gear, and an actuator - may be intriguing in their own right, but that's not the point. They demonstrate ...

New study shows bacteria can use magnetic particles to create a 'natural battery'

March 26, 2015 3:52 pm | by European Association of Geochemistry | Comments
New research shows bacteria can use tiny magnetic particles to effectively create a 'natural battery.' According to work published in journal *Science* on 27 March, the bacteria can load electrons onto and discharge electrons from microscopic particles of magnetite....

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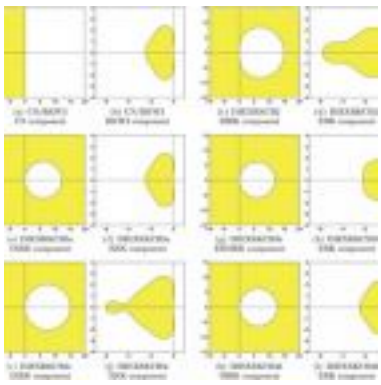

Engineers develop new methods to speed up simulations in computational grand challenge

March 26, 2015 3:50 pm | by University of California - San Diego | Comments

Engineers at the University of California, San Diego, have developed a new family of methods to significantly increase the speed of time-resolved numerical simulations in computational grand challenge problems. Such problems often arise from the high-resolution approximation ...

Salt Lake City will soon offer Google's high-speed Internet

March 26, 2015 3:44 pm | by Associated Press | Comments

Salt Lake City will soon join a handful of U.S. cities in offering high-speed internet service through Google Fiber. Mayor Ralph Becker made the announcement on Tuesday at The Leonardo museum. Google Fiber spokesman Devin Baer said ...

Photos of the Day: The world’s first commercial flamethrower

March 26, 2015 3:23 pm | by ECN Staff | Comments

Its creators describe the XM42 as the “world’s first fully handheld, grab and go portable flamethrower on the market,” aka the world's first commercial flamethrower. The XM42 doesn’t require pressurized tanks or a backpack filled with fuel....

TOPICS:

- Consumer
- Photos of the Day

UT Dallas engineers twist nanofibers to create structures tougher than bulletproof vests

March 26, 2015 1:22 pm | by University of Texas at Dallas | Comments

Researchers at the University of Texas at Dallas have created new structures that exploit the electromechanical properties of specific nanofibers to stretch to up to seven times their length, while remaining tougher than Kevlar. These structures absorb up to 98 joules per gram....

American, Russian leaving Earth for year at space station

March 26, 2015 1:19 pm | by MARCIA DUNN, AP Aerospace Writer | Comments

An American astronaut and Russian cosmonaut will leave Earth this week and move into the International Space Station for an entire year, all in the name of science. Scott Kelly and Mikhail Kornienko begin their marathon mission with a Soyuz rocket launch from ...

TOPICS:

- Military & Aerospace

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NASA details plans to pluck rock off asteroid, explore it

March 26, 2015 1:16 pm | by SETH BORENSTEIN, AP Science Writer | Comments

NASA is aiming to launch a rocket to an asteroid in five years and grab a boulder off of it - a stepping stone and training mission for an eventual trip sending humans to Mars. The space agency Wednesday unveiled details of the $1.25 billion plan....

TOPICS:

- Military & Aerospace

USTelecom, Texas Internet provider sue over net neutrality

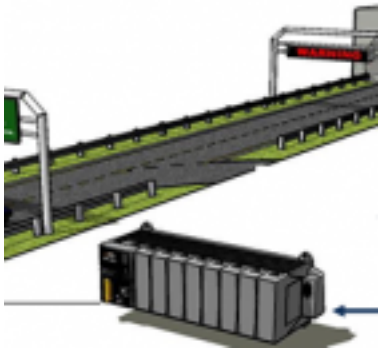
March 26, 2015 1:12 pm | by TALI ARBEL, AP Business Writer | Comments

The FCC says the first lawsuits filed against the government's new Internet traffic rules are "premature" and may be dismissed because they were filed too early. The Federal Communications Commission's new rules on broadband service are meant to uphold "net neutrality"....

Army improves systems testing to deliver more capability to fight

March 26, 2015 1:04 pm | by U.S. Army | Comments

The Army is now using high-performance computer modeling and simulation to ensure its weapons platforms and systems deliver greater effectiveness to the warfighters, said Dr. Jeffery Holland, director of U.S. Army Engineer Research and Development Center.



ICP DAS USA reveals the importance of ethernet communication in industrial systems

March 26, 2015 8:58 am | by ICP DAS USA | Comments

Industrial Ethernet (IE) refers to using standard Ethernet protocols in an industrial environment. IE systems use the same physical layer that already exists in most environments and can easily be expanded upon, reducing the need to add another network....

TOPICS:

- Industrial

PR electronics signs exclusive distributor agreement with WIKA Canada

March 26, 2015 8:39 am | Comments

The agreement takes effect immediately and gives WIKA Canada exclusive distributorship of the PR electronics products in all of Canada. Being the world leader in pressure, temperature and level measurement instrumentation and addressing PR electronics' key ...

TOPICS:

- Distribution & Design Services

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San Francisco, Sacramento and San Jose lead EPA’s Energy Star Top Cities list

March 26, 2015 8:01 am | by United States Environmental Protection Agency | Comments

Today, the U.S. Environmental Protection Agency released its seventh-annual list of the top 25 U.S. metropolitan areas with the most Energy Star certified buildings in 2014. This year, San Francisco ranks fifth with Sacramento coming in at 19th and San Jose at 22nd....

New kind of 'tandem' solar cell developed

March 25, 2015 3:02 pm | by Massachusetts Institute of Technology | Comments

Researchers at MIT and Stanford University have developed a new kind of solar cell that combines two different layers of sunlight-absorbing material in order to harvest a broader range of the sun's energy. The development could lead to photovoltaic cells that are more efficient than ...

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